

# ELECTRICAL.OPTICAL WIRING BOARD, ELECTRICAL.OPTICAL FUNCTIONAL DEVICE, AND ITS MANUFACTURING METHOD, AND ELECTRICAL.OPTICAL FUNCTIONAL MODULE FORMED THEREOF

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## Abstract of JP2000304951

**PROBLEM TO BE SOLVED:** To obtain an electrical.optical functional module easily making change of the electrical.optical functions by constituting by forming a first electric wiring, a first optical wave guide, and a concave indentation in the vicinity of which the first electric wiring positions and on the inner wall of which the first optical wave guide positions.

**SOLUTION:** In the electrical.optical wiring board 100, a light wave guide is formed by constituting with a lower clad layer 111, cores 112-114, and an upper clad layer 115 on the upper surface of a board 110. Additionally, on the upper surface of the upper clad layer 115, a pair of electric wiring 120 is formed. Further by removing a part from the upper clad layer 115 to the cores 112-114 and the lower clad layer 111 a square shaped and concave indentation 130 is formed. And by inserting an electrical.optical device 230 into the indentation 130 of the electrical.optical wiring board 100 and electrical.optical functional module is assembled and integrated the both with an adhesive 250.

Consequently, it can correspond with high flexibility to the desirable electrical.optical functional changes.

